



## SEQUENCE LISTING

### (I) GENERAL INFORMATION:

(i) APPLICANT: ZENECA LIMITED , . .

(ii) TITLE OF INVENTION: GENE SILENCING

(iii) NUMBER OF SEQUENCES: 3

### (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

(B) STREET: JEALOTTS HILL RESEARCH STATION,

(C) CITY: BRACKNELL,

(D) STATE: BERKSHIRE

(F) ZIP: RG42 6ET

### (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

### (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: GB NOT KNOWN

(B) FILING DATE:

(C) CLASSIFICATION:

### (viii) ATTORNEY/AGENT INFORMATION:

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 01344 414822

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTTGATA GATTCAGTTT TTATGTTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT 60

TTAGAATTTA ATATTTATTA AATGTTAGTG CATTTATACA AATAACATAT  
TACATCTCAA 120

TTTAGGAAAA GGTTTTGAAT TGACTATTCT TTTTTTGGTA GGAAAAAGTT  
TAGGACTCTA 240

TAAATAGAGG CATGTTCCCTT CTAACCTAAT TAGCATTAC AATGTAGTTT  
TAAGGGCTTT 300

GAGAGTTTTG GTTAGAGGGA GAATTTGTGA ACCTCTCATG  
TATCCGAGT GAATTGGTTG 360

AGGTTGTTTC CCTCTGTATT TTGTACTCTC ATGTTTATAG TGGATTGCTC  
ATTCCTTTG 420

TGGACGTAGG TCGATTGACC GAACCACGTT AAATTTTTGT GTCTTTTGGT  
ATATTCCTG 480

TTCTTCTTAC TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT  
ACACCTGCTT 540

ATTTTCGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT  
AATGGAGTCA GGTGTAGTGG 600

TTCGATAATC GATGATTGAA CCAAGTTAGA AAGAGGTGTT  
CATCTTGACG GGTGTAGTTC 660

TAGCCGCAAC CTTTTTGACA GTAATGAAGA TTTTGATGGA GAAATTGTTT CAGAGAGGTT  
720

CTCTGTGTTG AGACATAAAT TTTGTAAAGG AGATTATGGA  
GAGGAGAAGC AAGTTGTTGA 780

AGATTAAGTA AAGAAGGTGG ACAAATCTAT TTTGTCAGAA  
ATTCAGGCCA AGGGGGAGAT 840

TTGTTGGGTT TTATTTGCC TGAATTTTTT CCATAAATAG GTTTTCTTT  
AAGGAAAAGG 900

TTTTGAATTG ACTATTCTTT TTTTGGTAGG AAAAGGTTTA GGATTCTATA AATAGAGGCA  
960

TGTTCCCTTCT AACTTAATTA GCATTCACAA TGTAGTTTTA AGGGCTTTGA

TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA  
ATTGGTTGAG GTTGTTCCTC 1080

TCTGTATTTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TTCTTTTGTT  
GACGTAGGTC 1140

GATTGACCGA ACCACGTAA ATCTTTGTGT CTTTGGTAT ATTTCTCGTT  
GTCTTCTTAC 1200

TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTTT ACACCTGCTT  
ATTTGCGGTC 1260

CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA  
TTCACGATTA 1320

TTTATATGAA AATATAATAA ATATTGAATT TCCTTTGCTA TTCTTTATGT  
TTACGTCTTT 1380

ATATTTCAAA TTATTCCACC AATACTGACA AGCCCTAGGC  
CATCTCTAGG AAATTCATAC 1440

AATTTTTTTT TTGTTGTAA CTAGTTAAAT TGGCAGCCTT AAAGATTATT  
GTAAAATTCA 1500

AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC  
CAGTCAAAGT GTCCTAAAAT 1560

TTTATAAAAT TTGACACATG AAACAATAGC ACAATAAATT  
TTAGTACTAT TGCAGCCATG 1620

GCCCATAAGC CATCATGTAT TATAGTCAAA ATGGGTCCTT  
TTCCAATTTG TCTTGATCCC 1680

AAAAATCCCTT TGTAAGTAAG ATGGTTAAAC AAGAACTAT CATCTTAAAT GTAGATTGG  
1740

ACTCATAGAC TTGTCATAAC TCATAAAGAC TTGGAATATA  
ATAATTATTC ATTTAAATTA 1800

TAAITCTCTA CTTTAATATC TTCTACTATA AATACCCTTT CAAAGCCTCA

ATCAAACATT GATATTCATC TCTTCAATCT TTTGTATTCA CATATTCTAT  
TTATTCAATA 1920

CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGGAGAA  
CTTCCCAATT ATTAAC TTGG 1980

AAAAGCTCAA TGGAGATGAG AGAGCCAACA CCATGGAAAT  
GATCAAAGAT GCTTGTGAGA 2040

ATTGGGGCTT CTTTGAGGTA ATCATAAATT ACATAAACAT  
ATTAATATGT TTGTTTCAAT 2100

TTATCAGTCA TACTTTTCTC TGTTTTAAAA TTAATGTCAC TTTCAATATT TAATAATTCTG  
2160

CATGACATGT TTATAACACA ACAAGATATA GGTTACATTT  
TGATACATTA TATATAACTT 2220

CTGTCACACG ACTCAAAAAGT CTTTCTTAAT TTCTTGAATT CAATGATCGA  
TCAAAC TAAG 2280

ACACGTAAAA TGAAACGGGG AATAGTAATT CTGTTTGCTT  
ATGTGATCAT TG TAGTTGGT 2340

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA  
AGGGACATTA 2400

CAAGAAGTGC ATGGAACAGA GGTTTAAGGA ACTAGTGGCA  
AGTAAGGGAC TTGAGGCTGT 2460

TCAAGCTGAG GTTACTGATT TAGATTGGGA AAGCACTTTC  
TTCTTGCGCC ATCTTCCTAC 2520

TTCTAATATC TCTCAAGTAC CCGATCTTGA CGAAGAATAC  
AGGTACATAC ATGTGTCTTA 2580

CATATTGCGT ATATAATAAAA TAAACACAAA ATTTAAGTTA  
TATACGCTGA CAGTATAACT 2640

AATTATAATG TTGTACCAAAA TGATGCAGAG AGGTGATGAG  
AGGTTTCTTCTT 2700

AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAAA  
TCTTGGACTT GAAAAAGGTT 2760

ACTTGAAAAA TGCCTT<sup>TTAT</sup> GGATCAAAAG GTCCCAACTT TGGTACTAAA  
GTTAGCAACT 2820

ATCCACCATG TCCTAAGCCC GATTTGATCA AGGGACTCCG  
CGCTCATACA GACGCAGGAG 2880

GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCCT  
TCAACTCCTC AAAGACGAGC 2940

AATGGATCGA TGTCCTCCC ATGCGCCACT CTATTGTGGT TAAC<sup>CTTGGT</sup>  
GACCAACTTG 3000

AGGTACAAGA TTCACTAAGT GTGTGTGTTT TTATCAC<sup>TA</sup>T  
AACTTAGAAG TAGTAACTAA 3060

AAATGGTATT AATGAAATGT TATAAAAACA GGTGATCACT  
AACGGGAAGT ACAAGAGTGT 3120

GCTGCACAGA GTAATTGCAC AAACAGACGG GACACGAATG  
TCATTAGCCT CATTTTACAA 3180

TCCAGGAAGT GATGCAGTAA TATATCCAGC AAAA<sup>ACTTTG</sup> GTTGAAAAAG AGGCAGAGGA  
3240

AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC  
ATGAAGTTAT ATGCTGGACT 3300

CAAGTTTCAA GCCAAAGAGC CAAGATTTGA AGCAATGAAG  
GCAATGGAAA GTGATCCAAT 3360

TGCAAGTGCT TAGATCCCAA TTCAATTAAA AAAA<sup>TTGTTG</sup> TTGAAAAAT  
ATATTTAAAT 3420

ATAGCAATCT ATGTATACAC ATTATTTGCT CTCCTTATGT ATGGTAGAAT  
AAAGTTAGTA 3480

TTAAAAAAGA TTGTGATTTG CTGCATATGT ATCAAAAAGA

AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT  
TGGAGTGTAT TGTTCCTTCT 3600

CATGTAATTT AACTTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT  
3660

TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTCT TGGTAAAGTG TTTTCC 26